

SEQUENCE LISTING

<110> TURPEN, Thomas
GARGER, Stephen
MCCULLOCH, Michael
CAMERON, Terri
SAMNEK-POTTER, Michelle L.
HOLTZ, R. Barry

<120> METHOD FOR RECOVERING PROTEINS FROM THE
INTERSTITIAL FLUID OF PLANT TISSUES

<130> 00801.0135.US00

<140> 09/132,989

<141> 1998-08-11

<160> 1

<170> FastSEQ for Windows Version 3.0

<210> 1

<211> 7926

<212> DNA

<213> VIRAL

<400> 1

gtattttttac	aacaattacc	aacaacaaca	aacaacaaac	aacattacaa	ttactatttta	60
caattacaat	ggcatacaca	cagacagcta	ccacatcagc	tttgctggac	actgtccgag	120
gaaacaactc	cttgggtcaat	gatctagcaa	agcgtcgtct	ttacgacaca	gcggttgaag	180
agtttaacgc	tcgtgaccgc	aggcccaagg	tgaacttttc	aaaagtaata	agcgaggagc	240
agacgcttat	tgctaccgag	gcgtatccag	aattccaaat	tacattttat	aacacgcaaa	300
atgccgtgca	ttcgcttgca	ggtggattgc	gatctttaga	actggaatat	ctgatgatgc	360
aaattcccta	cggatcattg	acttatgaca	taggcgggaa	ttttgcatcg	catctgttca	420
agggacgagc	atatgtacac	tgctgcatgc	ccaacctgga	cgttcgagac	atcatgcggc	480
acgaaggcca	gaaagacagt	attgaactat	acctttctag	gctagagaga	ggggggaaaa	540
cagtcccca	cttccaaaag	gaagcatttg	acagatacgc	agaaattcct	gaagacgctg	600
tctgtcaca	tactttccag	acaatgagac	atcagccgat	gcagcaatca	ggcagagtgt	660
atgccattgc	gctacacagc	atatatgaca	taccagccga	tgagttcggg	gcggcactct	720
tgaggaaaaa	tgtccatacg	tgctatgccg	ctttccactt	ctctgagAAC	ctgcttcttg	780
aagattcata	cgtcaatttg	gacgaaatca	acgcgtgttt	ttcgcgcgat	ggagacaagt	840
tgaccttttc	ttttgcatca	gagagtactc	ttaattattg	tcatagttat	tctaattattc	900
ttaagtatgt	gtgcaaaaact	tacttcccgg	cctctaatag	agagggtttac	atgaaggagt	960
ttttagtcac	cagagttaat	acctgggttt	gtaagttttc	tagaatagat	acttttcttt	1020
tgtacaaagg	tgtggcccat	aaaagtgtag	atagttagca	gttttatact	gcaatggaag	1080
acgcatggca	ttacaaaaag	actcttgcaa	tgtgcaacag	cgagagaatc	ctccttgagg	1140
attcatcatc	agtcaattac	tggtttccca	aaatgaggga	tatgggtcatc	gtaccattat	1200
tcgacatttc	tttggagact	agtaagagga	cgcgcaagga	agtcttagtg	tccaaggatt	1260
tcgtgtttac	agtgtctaac	cacattcgaa	cataccaggc	gaaagctctt	acatacgcaa	1320
atgtttttgtc	ctttgtcgaa	tcgattcgat	cgagggtaat	cattaacggg	gtgacagcga	1380
ggtccgaatg	ggatgtggac	aaatctttgt	tacaatcctt	gtccatgacg	ttttacctgc	1440
atactaagct	tgccgtttcta	aaggatgact	tactgattag	caagtttagt	ctcgggttcca	1500

aaacgggtgtg	ccagcatgtg	tgggatgaga	tttcgctggc	gtttgggaac	gcatttccct	1560
ccgtgaaaga	gaggctcttg	aacaggaaac	ttatcagagt	ggcaggcgac	gcattagaga	1620
tcagggtgcc	tgatctatat	gtgaccttcc	acgacagatt	agtgactgag	tacaaggcct	1680
ctgtggacat	gcctgcgctt	gacattagga	agaagatgga	agaaacggaa	gtgatgtaca	1740
atgcactttc	agagttatcg	gtgttaaggg	agtctgacaa	attcgatgtt	gatgtttttt	1800
cccagatgtg	ccaatctttg	gaagttgacc	caatgacggc	agcgaagggt	atagtcgcgg	1860
tcatgagcaa	tgagagcggg	ctgactctca	catttgaacg	acctactgag	gcgaatgttg	1920
cgctagcttt	acaggatcaa	gagaaggctt	cagaagggtgc	tttggtagtt	acctcaagag	1980
aagttgaaga	accgtccatg	aagggttcga	tggccagagg	agagttacaa	ttagctggtc	2040
ttgctggaga	tcatccggag	tcgtcctatt	ctaagaacga	ggagatagag	tctttagagc	2100
agtttcatat	ggcaacggca	gattcggtta	ttcgtaagca	gatgagctcg	atttgtgtaca	2160
cgggtccgat	taaagttcag	caaatgaaaa	actttatcga	tagcctggta	gcatactat	2220
ctgctgcggg	gtcgaatctc	gtcaagatcc	tcaaagatac	agctgctatt	gaccttgaaa	2280
cccgtcaaaa	gtttggagtc	ttggatgttg	catctaggaa	gtggttaatc	aaaccaacgg	2340
ccaagagtca	tgcatggggg	gttgttgaaa	cccacgcgag	gaagtatcat	gtggcgcttt	2400
tggaaataga	tgagcagggg	gtggtgacat	gcgatgattg	gagaagagta	gctgtcagct	2460
ctgagtctgt	tgttttattcc	gacatggcga	aactcagaac	tctgcgcaga	ctgcttcgaa	2520
acggagaacc	cgatgtcagt	agcgcgaaag	ttgttcttgt	ggacggagtt	ccgggctgtg	2580
ggaaaaccaa	agaaattctt	tccagggtta	atthttgatga	agatctaatt	ttagtacctg	2640
ggaagcaagc	cgcggaatg	atcagaagac	gtgcgaattc	ctcagggatt	atttgtggcca	2700
cgaaggacaa	cgtaaaacc	gttgattctt	tcatgatgaa	ttttgggaaa	agacacagct	2760
gtcagttcaa	gaggttattc	attgatgaag	ggttgatgtt	gcatactggg	tgtgttaatt	2820
ttcttgtggc	gatgtcattg	tgcgaaattg	catatgttta	cggagacaca	cagcagattc	2880
catacatcaa	tagagtttca	ggattcccgt	accccgccca	ttttgccaaa	ttggaagttg	2940
acgaggtgga	gacacgcaga	actactctcc	gttgtccagc	cgatgtcaca	cattatctga	3000
acaggagata	tgagggcttt	gtcatgagca	cttcttcggg	taaaaagtct	gtttcgcagg	3060
agatggctcg	cggagccgcc	gtgatcaatc	cgatctcaaa	acccttgcat	ggcaagatcc	3120
tgacttttac	ccaatcggat	aaagaagctc	tgctttcaag	agggatttca	gatgttcaca	3180
ctgtgcatga	agtgcaaggc	gagacatact	ctgatgtttc	actagttagg	ttaacccta	3240
caccagtctc	catcattgca	ggagacagcc	cacatgtttt	ggtcgcattg	tcaaggcaca	3300
cctgttcgct	caagtactac	actgttggtt	tggatccttt	agttagtatc	attagagatc	3360
tagagaaact	tagctcgtag	ttgttagata	tgtataagg	cgatgcagga	acacaatagc	3420
aattacagat	tgactcgggtg	ttcaaagggt	ccaatctttt	tgttgcagcg	ccaaagactg	3480
gtgatatttc	tgatatgcag	ttttactatg	ataagtgtct	cccaggcaac	agcaccatga	3540
tgaataatth	tgatgctgtt	accatgaggt	tgactgacat	ttcattgaat	gtcaaagatt	3600
gcatattgga	tatgtctaag	tctgttgctg	cgcctaagga	tcaaatacaa	ccactaatac	3660
ctatggtacg	aacggcggca	gaaatgccac	gccagactgg	actattggaa	aatttagtgg	3720
cgatgattaa	aaggaacttt	aacgcacccg	agttgtctgg	catcattgat	attgaaaata	3780
ctgcatcttt	agttgtagat	aagttttttg	atagttattt	gcttaaagaa	aaaagaaaac	3840
caaataaaaa	tgtttctttg	ttcagtagag	agtctctcaa	tagatgggtta	gaaaagcagg	3900
aacaggtaac	aataggccag	ctcgcagatt	ttgattttgt	agatttgcca	gcagttgatc	3960
agtacagaca	catgattaaa	gcacaaccca	agcaaaaatt	ggacacttca	atccaaacgg	4020
agtaccgggc	tttgagacg	atttgtgtacc	attcaaaaaa	gatcaatgca	atatttggcc	4080
cgttgtttag	tgagcttact	aggcaattac	tggacagtgt	tgattcgagc	agatttttgt	4140
ttttcacaag	aaagacacca	gcgcagattg	cggatttctt	cggagatctc	gacagtcagt	4200
tgccgatgga	tgtcttgagg	ctggatatat	caaaatacga	caaatactcag	aatgaattcc	4260
actgtgcagt	agaatacgag	atctggcgaa	gattgggttt	tgaagacttc	ttgggagaag	4320
tttggaacaa	agggcataga	aagaccaccc	tcaaggatta	taccgcaggt	ataaaaactt	4380
gcatctggta	tcaaagaaa	agcggggacg	tcacgacgtt	cattggaaac	actgtgatca	4440
ttgctgcatg	tttgccctcg	atgcttccga	tggagaaaat	aatcaaagga	gccttttgcg	4500
gtgacgatag	tctgctgtac	tttccaaagg	gttgtgagtt	tccggatgtg	caacactccg	4560
cgaatcttat	gtggaatttt	gaagcaaaac	tgtttaaaaa	acagtatgga	tacttttgcg	4620
gaagatatgt	aatacatcac	gacagaggat	gcattgtgta	ttacgatccc	ctaaagttga	4680
tctcgaaact	tggtgctaaa	cacatcaagg	attgggaaca	cttgaggagg	ttcagaaggt	4740

ctctttgtga	tggttgcgtt	tcgttgaaca	attgtgcgta	ttacacacag	ttggacgacg	4800
ctgtatggga	ggttcataag	accgccctc	caggttcgtt	tgtttataaa	agtctggtga	4860
agtatttgct	tgataaagtt	ctttttagaa	gtttgtttat	agatggctct	agttgttaaa	4920
ggaaaagtga	atatcaatga	gtttatcgac	ctgacaaaaa	tggagccgat	cttaccgtcg	4980
atgtttacc	ctgtaaagag	tggtatgtgt	tccaaagttg	ataaaataat	ggttcatgag	5040
aatgagtc	tgtcagaggt	gaaccttctt	aaaggagtta	agcttattga	tagtggatac	5100
gtctgtttag	cgggtttggt	cgtcacgggc	gagtggaaact	tgcttgacaa	ttgcagagga	5160
gggtgtgagc	tggtgtctggt	ggacaaaagg	atggaaagag	ccgacgaggc	cactctcgga	5220
tcttactaca	cagcagctgc	aaagaaaaga	tttcagttca	aggctggtcc	caattatgct	5280
ataaccaccc	aggacgcgat	gaaaaacgtc	tggcaagttt	tagttaatat	tagaaatgtg	5340
aagatgtcag	cgggtttctg	tccgctttct	ctggagtttg	tgctgggtgtg	tattgtttat	5400
agaaataata	taaaattagg	tttgagagag	aagattacaa	acgtgagaga	cggaggggccc	5460
atggaactta	cagaagaagt	cgtgatgag	ttcatggaag	atgtccctat	gtcgatcagg	5520
cttgcaaagt	ttcgatctcg	aaccggaaaa	aagagtgatg	tccgcaaagg	gaaaaatagt	5580
agtaatgatc	ggtcagtgcc	gaacaagaac	tatagaaatg	ttaaggattt	tggaggaatg	5640
agttttaaaa	agaataattt	aatcgatgat	gattcggagg	ctactgtcgc	cgaatcggat	5700
tcgtttttaa	tacgctcgag	atcaatcatc	catctccgaa	gtgtgtctgc	agcatgcagg	5760
tgctgaacac	catggtgaac	aaacacttct	tgctcccttc	ggctctcatc	gtcctccttg	5820
gcctctcctc	caacttgaca	gccgggcaag	tcctgtttca	gggattcaac	tgggagtcgt	5880
ggaaggagaa	tggcgggtgg	tacaacttcc	tgatgggcaa	ggtggacgac	atcgccgag	5940
ccggcatcac	ccacgtctgg	ctccctccgc	cgtctcactc	tgctggagag	caaggctaca	6000
tgcttggg	gctgtacgat	ctggacgcgt	ctaagtacgg	caacgaggcg	cagctcaagt	6060
cgctgatcga	ggcgttccat	ggcaaggcg	tccaggtgat	cgccgacatc	gtcatcaacc	6120
accgcacagg	ggagcacaag	gacggccgag	gcactctactg	cctcttcgag	ggcgggacgc	6180
ccgactcccc	cctcgactgg	ggcccgcaca	tgatctgccg	cgacgacccc	tacggcgatg	6240
gcaccggcaa	cccgacacc	ggcgccgact	tcgcccgcgc	gccggacatc	gaccacctca	6300
acaagcgctg	ccagcgggag	ctcattggct	ggctcgactg	gctcaagatg	gacatcggct	6360
tcgacgcgtg	gcgctctgac	ttcgccaagg	gctactccgc	cgacatggca	aagatctaca	6420
tcgacgccac	cgagccgagc	ttcgccgtgg	ccgagatatg	gacgtccatg	gcgaacggcg	6480
gggacggcaa	gccgaactac	gaccagaacg	cgcaccggca	ggagctggtc	aactgggtcg	6540
atcgtgtcgg	cggcgccaac	agcaacggca	cggcgttcga	cttcaccacc	aagggcaccc	6600
tcaacgtcgc	cgtggaggcc	gagctgtggc	gcctccgcgg	cgaggacggc	aaggcgccc	6660
gcatgatcgg	gtggtggccg	gccaaaggcg	cgaccttcgt	cgacaaccac	gacaccggct	6720
cgacgcagca	cctgtggccg	ttccctcccg	acaaggtcat	gcagggttac	gcatacatcc	6780
tcacccaccc	cggcaacc	tgcatcttct	acgaccattt	cttcgattgg	ggtctcaagg	6840
aggagatcga	gcgcctggtg	tcaatcagaa	accggcaggg	gatccaccgg	gcgagcgagc	6900
tgcgcatcat	ggaagctgac	agcgatctct	acctcgcgga	gatcgatggc	aaggtgatca	6960
caaagattgg	accaagatac	gacgtcgaa	acctcatccc	cgaaggcttc	caggtcgtcg	7020
cgcacggtga	tggctacgca	atctgggaga	aaatctgacc	taggctcgca	aagtttcgaa	7080
ccaaatcctc	aaaaagaggt	ccgaaaaata	ataataattt	aggtaagggg	cgttcaggcg	7140
gaaggccctaa	acaaaaaggt	tttgatgaag	ttgaaaaaga	gtttgataat	ttgattgaag	7200
atgaagccga	gacgtcggtc	gcggattctg	attcgattta	aatatgtctt	actcaatcac	7260
ttctccatcg	caatttgtgt	ttttgtcatc	tgatgggct	gacctatag	aattgttaaa	7320
cgtttgtaca	aattcgttag	gtaaccagtt	tcaaacacag	caagcaagaa	ctactgttca	7380
acagcagttc	agcgaggtgt	ggaaaccttt	ccctcagagc	accgtcagat	ttcctggcga	7440
tgttttataag	gtgtacaggt	acaatgcagt	tttagatcct	ctaattactg	cgttgctggg	7500
ggcttttgat	actaggaata	gaataatcga	agtagaaaac	cagcagagtc	cgacaacagc	7560
tgaaacgtta	gatgctaccc	gcagggtaga	cgacgctacg	gttgcaattc	ggtctgctat	7620
aaataatttta	gttaatgaac	tagtaagagg	tactggactg	tacaatcaga	atacttttga	7680
aagtatgtct	gggttggtct	ggacctctgc	acctgcactc	taaatgcata	ggtgctgaaa	7740
tataaagttt	gtgtttctaa	aacacacgtg	gtacgtacga	taacgtacag	tgtttttccc	7800
tggacttaaa	tcgaagggtga	gtgtcttggg	gcgcgcggag	taaacatata	tggttcatat	7860
atgtccgtag	gcacgtaaaa	aaagcgaggg	attcgaattc	ccccggaacc	cccgggtggg	7920
gcccag						7926